## Test Bank for Cryptography and Network Security Principles and Practice 6th Edition by William Stallings

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## **CHAPTER 1: OVERVIEW**

## TRUE OR FALSE

T	F	<ol> <li>The OSI security architecture provides a systematic framework for defining security attacks, mechanisms, and services.</li> </ol>
Т	F	2. Security attacks are classified as either passive or aggressive.
Т	F	3. Authentication protocols and encryption algorithms are examples of security mechanisms.
T	F	4. The more critical a component or service, the higher the level of required availability.
Т	F	<ol><li>Security services include access control, data confidentiality and data integrity, but do not include authentication.</li></ol>
T	F	6. The field of network and Internet security consists of measures to deter, prevent, detect and correct security violations that involve the transmission of information.
T	F	7. Patient allergy information is an example of an asset with a high requirement for integrity.
T	F	8. The OSI security architecture was not developed as an international standard, therefore causing an obstacle for computer and communication vendors when developing security features.
Т	F	9. Data origin authentication does not provide protection against the modification of data units.
T	F	10. The emphasis in dealing with active attacks is on prevention rather than detection.
T	F	11. The connection- oriented integrity service addresses both message stream modification and denial of service.
Т	F	12. All the techniques for providing security have two components: a security- related transformation on the information to be sent and some secret information shared by the two principals.

Т		F	13. Information access threats intercept or modify data on behalf of users who should not have access to that data.		
Т		F	14. The data integrity service inserts bits into gaps in a data stream to frustrate traffic analysis attempts.		
Т		F	15. Symmetric encryption is used to conceal the contents of blocks or streams of data of any size, including messages, files, encryption keys, and passwords.		
ΜĮ	JLT	IPLE C	НОІСЕ		
	1.		is the most common method uses encryption keys and hash function ures.		
			A) Symmetric encryption	B) Data integrity algorithms	
			C) Asymmetric encryption	D) Authentication protocols	
	2.	<ol> <li>A common technique for masking contents of messages or other information traffic so that opponents can not extract the information from the message is</li> </ol>			
			A) integrity	B) encryption	
			C) analysis	D) masquerade	
3 involves the passive capture of a data unit and its subsect retransmission to produce an unauthorized effect.				_	
			A) Disruption	B) Replay	
			C) Service denial	D) Masquerade	

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4. The three concepts that form what is often referred to as the CIA t These three concepts embody the fundamental security of for both data and for information and computing services.		nbody the fundamental security objectives			
	A) confidentiality, integrity and availability				
	B) communication, integrity and authentication				
	C) confidentiality, integrity, access control				
	D) communication, inforn	nation and authenticity			
5.	A loss of is the unauthor	rized disclosure of information.			
	A) authenticity	B) confidentiality			
	C) reliability	D) integrity			
6.	Verifying that users are who they say they are and that each input arriving at the system came from a trusted source is				
	A) authenticity	B) credibility			
	C) accountability	D) integrity			
7. A level breach of security could cause a significant degradati mission capability to an extent and duration that the organization is a perform its primary functions, but the effectiveness of the functions i significantly reduced.		nd duration that the organization is able to			
	A) catastrophic	B) moderate			
	C) low	D) high			
8.	A is any action that comby an organization.	promises the security of information owned			
	A) security attack	B) security service			
	C) security alert	D) security mechanism			

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9.	2. A takes place when one entity pretends to be a different entity.		ntity pretends to be a different entity.
		A) replay	B) masquerade
		C) service denial	D) passive attack
10 is the protection of transmitted data from passive attac		smitted data from passive attacks.	
		A) Access control	B) Data control
		C) Nonrepudiation	D) Confidentiality
11. A(n) service is one that protects a system to ensure its availabilit and addresses the security concerns raised by denial- of- service attacks.			
		A) replay	B) availability
		C) masquerade	D) integrity
12.	2 threats exploit service flaws in computers to inhibit use by legitimate users.		
		A) Information access	B) Reliability
		C) Passive	D) Service
13. A(n) is a potential for violation of security, which exists when is a circumstance, capability, action or event that could breach security cause harm.			
		A) threat	B) attack
		C) risk	D) attack vector
14. The protection of the information that might be derived from observati traffic flows is			chat might be derived from observation of
	A) con	nectionless confidentiality	B) connection confidentiality
	C) trai	ffic- flow confidentiality	D) selective- field confidentiality

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15. Data appended to, or a cryptographic transformation of, a data unit that allows a recipient of the data unit to prove the source and integrity of the data unit and protect against forgery is a(n)				
A) security audit trail	B) digital signature			
C) encipherment	D) authentication exchange			
SHORT ANSWER				
1. A is any process, or a device incorp designed to detect, prevent, or recover from a seencryption algorithms, digital signatures and au	ecurity attack. Examples are			
2. An attack attempts to alter system r	resources or affect their operation.			
3. "The protection afforded to an automated information system in order to attain the applicable objectives of preserving the integrity, availability and confidentiality of information system resources" is the definition of				
4. A loss of is the disruption of access to information system.	to or use of information or an			
5. Irreversible mechanisms include hash algorithms and message authentication codes, which are used in digital signature and message authentication applications.				
6. In the United States, the release of student gr	rade information is regulated by the			
7. A loss of is the unauthorized modific	ation or destruction of information.			
8. A attack attempts to learn or make u but does not affect system resources.	se of information from the system			
9. The service is concerned with assur from the source that it claims to be from. This seconnection is not interfered with in such a way one of the two legitimate parties for the purpose reception.	ervice must also assure that the that a third party can masquerade as			

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Full Download: http://downloadlink.org/product/test-bank-for-cryptography-and-network-security-principles-and-practice-6th-edit Cryptography and Network Security: Principles and Practice, 6th Edition, by William Stallings 10. Two specific authentication services defined in X.800 are peer entity authentication and \_\_\_\_\_ authentication. 11. In the context of network security, \_\_\_\_\_ is the ability to limit and control the access to host systems and applications via communications links. 12. \_\_\_\_\_ prevents either sender or receiver from denying a transmitted message. Thus, when a message is sent, the receiver can prove that the alleged sender in fact sent the message and when a message is received, the sender can prove that the alleged receiver in fact received the message. 13. Viruses and worms are two examples of \_\_\_\_\_ attacks. Such attacks can be introduced into a system by means of a disk that contains the unwanted logic concealed in otherwise useful software. They can also be inserted into a system across a network. 14. An is an assault on system security that derives from an intelligent act that is a deliberate attempt to evade security services and violate the security policy of a system. 15. \_\_\_\_\_\_ is the use of a trusted third party to assure certain properties of a data exchange.